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PHASE I BOOK EXPLOITATION SOV/4411

Konferentsiya po voprosam teorii i primeneniya diskretnykh avtomaticheskikh sistem, Moscow, 1958

Teoriya i primeneniye diskretnykh avtomaticheskikh sistem; trudy konferentsii (Theory and Application of Discrete Automatic Systems; Transactions of the Conference) Moscow, AN SSSR, 1960. 572 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Nitsional'nyy komitet SSSR po avtomaticheskomu upravleniyu. Institut avtomatiki i telemekhaniki.

Editorial Board: M.A. Gavrilov, Doctor of Technical Sciences, Yu.V. Dolgolenko, Doctor of Technical Sciences, V.A. Kotel'nikov, Candidate of Technical Sciences, A.Ya. Lerner, Doctor of Technical Sciences, I.S. Morosanov (Scientific Secretary), G.S. Pospelov, Doctor of Technical Sciences, A.A. Fel'dbaum, Doctor of Technical Sciences, A.V. Khramoy, Candidate of Technical Sciences, and Ya.Z. Tsypkin, Doctor of Technical Sciences; Resp. Ed.: Ya.Z. Tsypkin, Doctor of Technical Sciences; Ed. of Publishing House: M.L. Podgoyetskiy; Tech. Ed.: S.G. Markovich.

PURPOSE: These transactions are intended for the members of the conference and other specialists in automatic control.

COVERAGE: The Conference on the Problems of Theory and Application of Discrete Automatic Systems took place in Moscow from September 22 to 26, 1958. It was the first conference devoted to discussions of the present status of the theory and techniques of discrete automatic systems and to planning for future development. The papers discussed at the conference have been divided into four groups. In the first group optimization switching circuits are discussed as well as methods of relay control systems, in particular plant lag control systems in which are realized optimal processes as to quick response. The second group of papers is devoted to the analysis and synthesis of pulse systems with variable parameters, of pulse systems with several pulse components, to the study of self-oscillation phenomena in nonlinear pulse systems, and to the methods of calculating linear pulse systems. Problems of simulating pulse systems and descriptions of some pulse regulators have also been included. The third group of papers deals with digital systems. Problems of using elements of digital technique and digital computers for the automation of various fields of engineering, i.e., power engineering, mining, radio communication, metallurgy, etc., are discussed. Problems of analog-digital conversion and vice versa as well as problems of developing specialized functional converters have been included in this group. The fourth group of papers includes theoretical elements and certain practical applications of the simplest types of self-adjusting systems, optimalizing control systems, which are developed as relay, pulse and digital devices. Here are also found papers describing various methods of investigating steady state conditions in optimalizing systems, results of studying the effects of random factors on the process of automatic scanning, and examples of existing optimalizing control systems. Some of the more interesting consultations and observations made during the discussion of the various conference papers have also been included in the transactions. Personalities and references accompany most of the papers.

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L 59520-65 EWT(d)/T/EWP(1)/EED-2 Pq-4/Pg-4/Pk-4 IJP(c) BB/GG
ACCESSION NR: AP5015535 UR/0286/65/000/008/0069/0070
681.142.32

AUTHOR: Kagan, B. M.; Dolkart, V. M.; Novik, G. Kh.; Kanevskiy, M. M.; Luk'yanova, L. M.; Stepanov, V. N.; Ul'yanova, N. K.; Koltypin, I. S.; Adas'ko, V. I.; Molchanov, V. V.; Voitelev, A. I.

TITLE: General-purpose digital control computer. Class 42, No. 170218

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 69-70

TOPIC TAGS: computer, control computer, arithmetic unit, adder, core memory, B register, strobing amplifier, analog digital converter, digital analog converter

ABSTRACT: An Author Certificate has been issued for a digital control computer consisting of an arithmetic unit, magnetic core memory unit, control unit, input/output unit, magnetic tape memory, teletype, perforator, universal converter, and operator console. The system is economical, fast-acting, and reliable due to a number of distinct features incorporated into its design. Economy is achieved by a special arrangement of the adder and the memory unit with its output parity check control. Speed is increased by an asynchronous mode of operation, and a special design of the adder, in which the time necessary for information distribution is kept to a mini-

Card 1/2

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mum. High overall reliability is achieved by a temperature-stabilized, high-speed, disturbance-immune memory unit design. Other reliability features include the absence of interference between the B-register contents and its counter, a longitudinal parity check for the punch tape, an automatic tape misalignment guard, and automatic drift compensation in the multichannel A/D and D/A converters. [BD]

ASSOCIATION: Vsesoyuznyy Ordena trudovogo krasnogo znameni nauchno-issledovatel'skiy institut electromekhaniki (All-Union Scientific Research Institute of Electromechanics)

SUBMITTED: 06Mar64 ENCL: 00 SUB CODE: DP

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4053

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27979
S/194/61/000/004/011/052
D249/D302

16.8000 (1121, 1132, 1329)

AUTHORS: Kagan, B.M., Dolkart, V.M., Voitelev, A.I. and Brudnyy, B.P.

TITLE: A complex digital computer installation for investigating processes occurring in control systems with digital control machines

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 4, 1961, 21, abstract 4 B160 (V sb. Teoriya i primeneniye diskretn. avtomat. sistem, M., AN SSSR, 1960, 288-295)

TEXT: A description is given of a complex computer installation comprising the general purpose computer type M-3, general purpose electronic computer type MN-8(MN-8), and a two-way data converter for the analog and digital forms of information. The installation is intended for simulating complex automatic systems, consisting of a controlled object (analog part) and a controlling digital ma-

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A complex digital computer...

chine. In an exploratory system comprising a closed circuit, the object and the digital machine are tied together by means of the digital-analog and analog-digital converters. In this system the task of the digital machine is to process the object's output measured at some instant of time, and to prepare the instructions which are then sent to the object via converters. It is assumed that after having received the data from the object, the digital machine continues to process the data for a certain defined time interval after which, it suddenly changes its output control instructions. Then begins the "control cycle", at the end of which a new reading is taken from the object and a new computing cycle is initiated by the digital machine. In the present complex installation the object is simulated by the installation MN-8 and the function of the calculating machine is performed by the installation M-3. It may be noted that in general there exist three different operating conditions for the kind of installation considered. If the digital computer has the same speed of functioning as the analog computer, the operation is carried out in the real time scale. If the speed

4

Card 2/4

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A complex digital computer...

of the digital computer is low, the time scale of the MN-8 can be adjusted. Finally, if the required adjustment of the time scale is technically impossible, the analog computer can be made to operate with the intermission of solution. For the present installation the second type of operation has been selected. This type of operation has been selected. This type of operation permits in particular the use of only one analog-digital and one digital-analog converter, since individual translations can be performed and stored in a sequential manner. Converter connection to an arbitrary channel of a variable is effected by means of a special switch based on the step selector, type ШИ (ShI)25/8. The analog-digital converter (voltage binary code) utilizes the principle of the "balancing currents" in a circuit with feedback, and has seven binary divisions. For the reverse translation, the current addition circuit in the decision unit is used. In order to enable the use of the computer M-3 in the present installation, two operations had to be added to it, viz., "direct translation" and "reverse translation". In the address part for this instruction, the address of the subsequent

Card 3/4

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27979

A complex digital computer... S/194/61/000/004/011/052
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instruction is given together with the address of the cell to which the converted number should be sent, or from which a number to be converted should be taken. By using this instruction the control is effected of not only the converter, but also of channel switching and the corresponding switching in the computer itself. The combined analog-digital computing installation can be put to the dual purpose of solving mathematical problems and producing synthesis of the optimum conditions for adjustment and control systems. 1 reference. [Abstracter's note: Complete translation]

4

Card 4/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

S/183/60/000/004/001/005
B004/B058

AUTHORS: Voitelev, Yu. A., Katorzhnov, N. D.

TITLE: Improvement of the Resistance of Polyamide Fibers to the Effect of Light

PERIODICAL: Khimicheskiye volokna, 1960, No. 4, pp. 3 - 7

TEXT: The authors give a survey of the existing methods of stabilizing polyamide fibers against the effect of sunlight, mainly proposed in Western publications and patents. They mention: 1) photostabilization by means of chromium salts (synthetic tanning agents, chrome dyes, potassium bichromate, chromium anthranilate, chromium fluoride). Data concerning the effect of chromium salts on the photostability of caprone fibers are compiled in Table 1. An addition of from 0.01 to 0.05% chromium salt is recommended. 2) Photostabilization by means of manganese salts (manganese salicylate, Table 2). 3) Other photostabilizers, such as aluminum salicylate, cerium oxide, organic and inorganic copper compounds (chlorides, iodides, phosphates); combinations of chromium- and manganese salts, copper- and manganese salts; surface treatment of the

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

Improvement of the Resistance of Polyamide Fibers to the Effect of Light

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B004/B058

finished fiber with such salts and the prevention of their being washed out by means of precipitation (zinc acetate + disodium phosphate). The authors emphasize the necessity of a comprehensive study of these methods. The introduction of the stabilizer into the monomeric material before polymerization or into the polymeric melt before spinning is described by them as being specially promising. There are 2 tables and 27 references: 5 Soviet, 6 US, 7 British, 6 German, 2 French, 1 Japanese, and 1 Swiss.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

KAGAN, B.M., doktor tekhn. nauk; DOLKART, V.M., kand. tekhn. nauk; NOVIK, G.Kh., kand. tekhn. nauk; STEPANOV, V.N., inzh.; KANEVSKIY, M.M., inzh.; LUK'YANOV, L.M., inzh.; TANAYEV, M.Ya., inzh.; POLYAKOV, V.N., inzh.; KOLTYPIN, I.S., inzh.; UL'YANOVA, Ye.K., inzh.; ADAS'KO, V.I., inzh.; MOLCHANOV, V.V., inzh.; VOITELEV, A.I., inzh.

The "VNIIEM-1" universal control computer. Elektrotekhnika 35 no.7: 4-10 '64. (MIRA 17:11)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

KATORZHNOV, Nikolay Dmitriyevich; VOITELEV, Yuriy Aronovich; VERBITSKAYA, Ye.M., red.; PYATNITSKIY, V.N., tekhn.red.

[Identification of synthetic fibers; qualitative and quantitative analysis of synthetic fibers in the textile industry] Raspoznavanie khimicheskikh volokon; kachestvennyi i kolichestvennyi analizy khimicheskikh volokon v tekstil'noi promyshlennosti. Moskva, Gizlegprom, 1963. 107 p. (MIRA 16:12)

(Textile fibers, Synthetic--Analysis)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITELEV, Yu.A.; KATORZHNOV, N.D.

Increasing the heat stability of polyamides by the inclusion of small amounts of inorganic substances. Khim.volok. no.3:3-6 '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.
(Polyamides—Thermal properties)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

KUDRYAVTSEV, G.I.; KATORZHNOV, N.D.; VOITELEV, Yu.A.; GOLUBEVA, Ye.V.; NENAROKOMOV, L.S.

Effect of inorganic salts on the thermostability of capron fiber. Khim.volok. no.5:16-20 '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Nylon)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

Voitelev, Yu. A.

155540 82061 S/183/60/000/03/02/007
B020/B054

AUTHORS: Voitelev, Yu. A., Katorzhnov, N. D.

TITLE: Increase in the Thermal Stability of Polyamides by Adding Small Quantities of Inorganic Substances

PERIODICAL: Khimicheskiye volokna, 1960, No. 3, pp. 3-6

TEXT: In the present paper, the authors describe the effect of inorganic heat stabilizers on the thermal stability of polyamides, and mention the previously observed effect of elementary copper (in finely ground or colloidal state), inorganic compounds of mono- and bivalent copper, and organic copper compounds. They studied various procedures of adding thermostabilizers and the increase in thermal stability of polyamides with the following additions: 1) Mixture consisting of 100 parts of ε-caprolactam, 4 parts of a salt of hexamethylene diamine and adipic acid, and copper or a copper compound; 2) 100 parts of polyamide consisting of 60 parts of ε-caprolactam and 40 parts of a hexamethylene diamine - adipic acid salt dissolved in a mixture consisting of 285 parts by volume of alcohol and 71 parts by volume of water. After heating to

Card 1/3

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Increase in the Thermal Stability of Polyamides by Adding Small Quantities of Inorganic Substances

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82061

70-80°, copper or a copper compound is added. The influence of additions of copper or copper compounds on the thermal stability of a polyamide film is given in Tables 1 and 2. Table 3 shows the thermal stability of polyamides stabilized with phosphorous and halide compounds. Table 4 shows the increase in thermal stability of polyamides by the addition of ternary stabilizer systems, and Table 5, by the addition of 2-mercapto benzimidazole, halide and phosphorous compounds. The authors deal with the compounds and systems most used in the individual groups, the quantities added, their effect, the influence of the polyamide type, the influence of other additions (plasticizers, fillers, resins, pigments, antioxidants, etcl). Hitherto, it has not been possible to clarify the action mechanism of heat stabilizers and their consumption in the aging process of polyamides. Finally, the authors mention the use of chromium- and manganese salts as photochemical stabilizers. There are 5 tables and 11 non-Soviet references.

Card 2/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

Increase in the Thermal Stability of Polyamides by Adding Small Quantities of Inorganic Substances

S/183/60/000/03/02/007
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82061

ASSOCIATION: VNIIV (Vsesoyuznyy nauchno-issledovatel'skiy institut volokna = All-Union Scientific Research Institute of Fibers)

Card 3/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITELEV, Yu.A., mladshiy nauchnyy sotrudnik; KATORZHNOV, N.D.

Determining the amount of heterochain fibers in blends. Tekst. prom. 22 no.11:72-77 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennykh volokon (VNIIV) (for Voitelev). 2. Nachal'nik laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennykh volokon (for Katorzhnov).
(Textile fibers, Synthetic) (Chemistry, Analytic—Quantitative)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

KATORZHNOV, N.D.; VOITELEV, Yu.A., mladshiy nauchnyy sotrudnik;
BIBER, B.L., mladshiy nauchnyy sotrudnik

Rapid method for determining polyamide fibers. Tekst.prom.
22 no.8:72-77 Ag '62. (MIRA 15:8)

1. Nachal'nik laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennykh volokon (VNIIV) (for Katorzhnov).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennykh volokon (for Voitelev, Biber).
(Textile fibers, Synthetic) (Polyamides)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

KATORZHNOV, N.D.; VOITELEV, Yu.A.; PROSYANIK, Yu.V.

Regulators of the molecular weight of polycaprolactam and action mechanism. Khim. volok. no.6:23-26 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

S/081/63/000/001/061/061
B144/B186

AUTHORS: Katorzhnov, N. D., Voitelev, Yu. A., Biber, B. L.

TITLE: Rapid method for differentiating polyamide fibers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1963, 566, abstract 1T295 (Tekstil'n. prom-st', no. 8, 1962, 72-77)

TEXT: Improved schemes and rapid methods are suggested for determining all known polyamide fibers (including Enant and Pelargon), based on analyzing their solubility in different solvents. Methods are recommended for the qualitative and quantitative determination of Caprone and Anid fibers mixed with cotton, wool and viscose staple fibers. [Abstracter's note: Complete translation.]

Card 1/1

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITELEV, Yu.A.; KATORZHNOV, N.D.

Increasing the stability of polyamide fibers toward sunlight and weather. Khim.volok no.4:3-7 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.
(Textile fibers, Synthetic) (Polyamides)
(Photochemistry)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

87876 S/183/60/000/005/003/007
B028/B054

15 55 40 2209 only

AUTHORS: Kudryavtsev, G. I., Katorzhnov, N. D., Voitelev, Yu. A., Golubeva, Ye. V., Nenarokomov, L. S.

TITLE: Effect of Inorganic Salts on the Heat Resistance of Caprone Fibers

PERIODICAL: Khimicheskiye volokna, 1960, No. 5, pp. 16-20

TEXT: The present paper describes investigations carried out to increase the heat resistance of caprone fibers by additions of inorganic salts. The authors used water-soluble copper salts of nitric, citric, lactic, sulfuric, perchloric, acetic, and formic acids. 0.05 - 0.01% additions of these compounds were introduced during the polymerization of caprolactam. The authors further used 0.05-0.01% additions of water-insoluble, fatty-acid copper salts introduced into molten caprolactam. 0.25-0.5% additions of copper borate, copper phosphate, and copper chromate, as well as three-component additions, namely, copper acetate, potassium iodide, and monosubstituted sodium phosphate, were also used. It was shown that the specific viscosity reaches a maximum when adding copper stabilizers and heating the fiber to

Card 1/4

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Effect of Inorganic Salts on the Heat Resistance of Caprone Fibers

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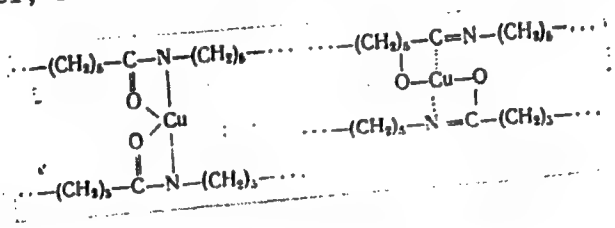
180°C. Fibers with additions of water-soluble copper salts and three-component additions were tested for heat resistance. They were heated for 6, 24, 48, 72, and 100 hours to 150°C, and for 2, 8, 14, 24, and 36 hours to 180°C. It was shown that a simultaneous introduction of multi-component additions during fiber polymerization yielded maximum heat resistance. 0.03% copper acetate, 0.25% sodium phosphate, and 2% potassium iodide were used. This inhibited the decomposition of the fiber during heating. Resistance to tearing increased by 8% on 14 hours' heating to 180°C. After 90 hours' heating to 180°C, it had only dropped by 39.2% (as against 67% after two hours without addition). Copper salts form a chelate compound with the fiber, in which the copper is bound by secondary valencies:



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Effect of Inorganic Salts on the Heat Resistance of Caprone Fibers

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Chelatization occurs in the lactim rather than in the lactam form. There are 11 figures and 13 references: 3 Soviet, 8 German, 1 US, 2 French, and 1 British.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

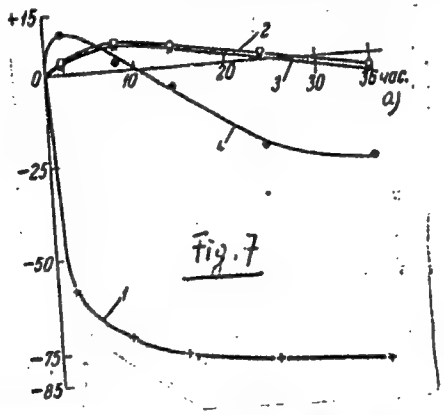

Fig. 7

Card 3/4

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Legend to Fig. 7: Change in resistance to tearing of caprone fiber after addition of three-component salts on heating to 180°C in air. Curve 1: fiber without addition; 2: with addition of 0.03% Cu acetate, 2% KI, and 0.25% NaH_2PO_4; 3: with addition of 0.015% Cu acetate, 1% KI, and 0.25% NaH_2PO_4; 4: with addition of 0.05% Cu acetate; a) hours

Card 4/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITELEV, Yu. A., mladshiy nauchnyy sotrudnik; KATORZHNOV, N. D.

Quantitative analysis of synthetic heterochain fibers. Tekst. prom. 23 no.3:72-80 Mr '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennykh volokon (VNIIV) (for Voitelev). 2. Nachal'nik laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennykh volokon (for Katorzhnov).

(Synthetic fibers)
(Chemistry, Analytical--Quantitative)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITH, L.

Role of sputum cultures and laryngeal swabs in diagnosis of tuberculosis. Tuberk. kerdesei 5 No.3: 40-43. Sept 1953. (CIML 25:5)

1. Doctor. 2. Dunavecsei District Tuberculosis Welfare Center (Head Head-Physician -- Dr. Laszlo Voith).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITH, Laszlo, dr.

Results of ambulatory and sanatorial therapy of tuberculosis. Tuberkulozis 13 no.5:141-144 My '60.

1. A Dunavecsei Jarasi Tanacs Tbc Gondozointezete es Tudobetegotthona, Solt (vezeto foorvos: Voith, Laszlo, dr.) kozlemenye. (TUBERCULOSIS ther.)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITH, Laszlo

Care and fate of Koch-positive persons. Tuberkulozis 10 no.7-9: 179-184 July-Sept 57.

1. A Dunavecsei Jaras tbc. Gondozo Intezetenek (Solt) kozlemenye.
(TUBERCULOSIS, PULMONARY, statist.
active tuberc. in Hungary (Hun))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITH, Laszlo, dr.

Morbidity during the period following a mass survey.. Tuberkulozis 13 no.1:15-18 Ja '60.

1. A Dunavecsei Jarasi Tanacs Tbc Gondozointezetenek (Solt) (Vezeto foorvos: Voith, Laszlo, dr.) kozlemenye.
(TUBERCULOSIS epidemiol.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

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VOITH, Laszlo, dr.

Epidemiologic conditions in Dunavecse district. Tuberk. kerdesei 8 no.2:43-45 Apr 55.

1. A Dunavecsei Jarasi Tanacs tbc. Gondozointezetenek (Solt, vezetoorvos: Voith Laszlo dr.) kozlemenye.
(TUBERCULOSIS, epidemiology, in Hungary)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOITH, Laszlo, dr.

Screening of population in Dunavecse county in 1951-1955.
Tuberk. kerdesei 9 no.4:148-153 Aug 56.

1. A Dunavecsei Jarasi Tanacs Tbc. Gondozo Intezetenek (Solt) kozl. (Vezeto foorvos: Voith, Laszlo, dr.).
(TUBERCULOSIS, PULMONARY, prev. & control
in Hungary, screening of population in one county in 1951-5 (Hun))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

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VOITH, Laszlo, dr.

Tuberculosis morbidity of BCG-vaccinated persons. Orv. hetil. 95 no.42:1151-1155 17 Oct 54.

1. A Dunavecsei Jarasi Tanacs tbc. Gondozintezetenek (Solt) kozlemenye
(BCG VACCINATION
postvacc. morbidity)

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18 21 27

Effects of silicon and iron impurities upon the properties of Al-Mg3 alloy. László Fodor, Rezső Herendi, Ottó Szénnek, and Márton Voith. *Kohászati Lapok* 91, 148-9 (1958).—Contaminant traces will not affect hardenability but will cause an increase in hardness. The Si content will dissolve over 350° and will segregate upon cooling as Mg_2Si or $FeSiAl_5$. Annealability is improved with Fe and Si if either or both are of low concn. If both are of high concn., $FeSiAl_5$ (a very hard phase) will form. Recrystn. is affected by Fe and Si in that these contaminants will retard the growth of the crystallites. The recrystn. threshold is 10-15% reduction at 300° and <10% at 500°. L. G. Arvai

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOYTKEVICH, V.I. [Voitkevych, V.I.]

Some problems concerning the acclimatization of the organism to chronic oxygen starvation. Fiziol. zhur. [Ukr.] 10 no.3:360-366 My-Je '64. (MIRA 18:9)

1. Terapevticheskiy sektor Instituta fiziologii im. I.P.Pavlova AN SSSR.

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VOI'KOV, Ye., general-mayor

Exploit of the soldier in artistic representation.
Komm. Vooruzh. Sil 4 no. 20-22-29 My '54. (MIRA 17:7

1. Nachal'nik otdela kul'tury Glavnogo politicheskogo upravleniya Sovetskoy Armii i Voyenno-Morskogo Flota.

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VOITOV, Pavel Ivanovich

[Mechanized cultivation of vegetables] Mekhanizatsiia vozdelyvaniia ovoshchnykh kul'tur. Izd.2., perer. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 231 p. (MIRA 14:8)
(Vegetable gardening) (Agricultural machinery)

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SF

VOITENKOVSKAYA T. V. (Senior Laboratory Worker, Rovno NVS) and POGORELYI A. I. (Candidate of Veterinary Sciences) and MELNICHUK and MEREMESKY A. I. (Junior Scientific Co-workers)

"Paramphistomiasis of horned cattle."

Veterinariya, Vol. 38, No. 12, December 1961, P. 25

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VOITSEKHOVSKIY, A. L.

Voitsekhovskii, A. L. Kaolins of U.S.S.R. *Goroyl Zhur.*, 112 [10] 51 (1930).—Deposits, mining, work-ing, and use of Russian kaolin are discussed in detail.

Volarovich, M. P., and Tolstoi, D. M. Determination of the [illegible] of mineral suspensions. *J. Phys. Chem. U.S.S.R.*, 4, 781-91, 11 (1933); *Kolloid-Z.*, 70, [illegible] A new design of a rotating-cylinder apparatus was applied to the measurement of the plastic [illegible] in different grades of clay. At concentrations corresponding to equal yield values the more plastic the [illegible] the smaller was its viscosity. As a measure of plasticity the

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VOLTSIK, L. N.

~~LATYSHEV, G. D.~~

PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M. Lobanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1/20

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176

Transactions of the Tashkent (Cont.) SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

176

Transactions of the Tashkent (Cont.) SOV/5410

instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN ENGINEERING AND GEOLOGY

Card 3/20

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

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Card 14/20

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KONIG, B.; VOJACEK, K.; ZAPLETAL, B.

Eosinophilic granuloma of the orbit. Cesk. oftal. 20 no.3:166-172 My '64.

1. Ocni klinika lekarske fakulty PU [Palackeho Universita] v Olomouci (prednosta doc. dr. V. Valach) a Neurochirurgicke oddeleni fakultni nemocnice v Olomouci (vedouci MUDr. B.Zapletal).

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REITER, Radvan, inz.; VOJACEK, Tomas

Influence of asphalt bitumen on insulating PVC foils. Inz. stavby 12 no.10: 448-451 '64.

1. Research Institute of Building Construction, Gottwaldov (for Reiter). 2. Stavebni izolace National Enterprise, Prague (for Vojacek).

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New waterproof materials. Stavivo 40 no.12:418 D '62.

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PROKES, Bohumir, dr.; VOJACEK, Tomas

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Poz stavby 11 no.4:225-226 '63.

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SPINKA, J.; VOJACEK, V.; KARLICEK, V.

Experimental experiences with vascular sutures using Gudov's instrument. Rozhl. chir. 44 no.7:480-485 Jl '65.

1. I. chirurgicka klinika lekarske fakulty Karlovy University v Plzni (prednosta doc. dr. J. Spinka).

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Coronography under experimental conditions. I. Technic. Plzen. lek. sborn. 24:33-36 '64

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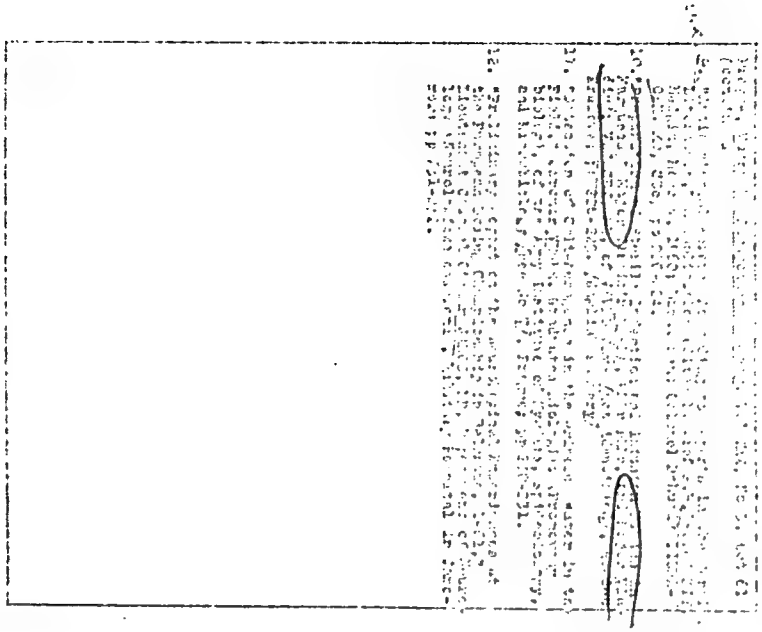
VOJACEK, V.



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The principles of Dr. Mensendieck in physical exercise. Cesk.gyn. 26[40] no.1/2:26 F '61.

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VOJAK, Josef

Extraordinary measures in the building industry to increase the material interest of workers. Prace mzda 12 no.2: 52-57 F'64.

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VOJAK, Josef

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VOJCAK, J.

Principles for planning the area automatization of the telephone network in Slovakia. (Strojnoelektrotechnicky Casopis, Vol. 8, No. 2, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

L 32227-66 IJP(c)

ACC NR: AP6020840 SOURCE CODE: YU/0006/65/000/10-/0243/0248

AUTHOR: Vojchevski, Vasil (Graduate engineer)

ORG: V.G.I., Belgrade

25
B

16

TITLE: Combined method for the equalization of trigonometric networks

SOURCE: Geodetski list, no. 10-12, 1965, 243-248

TOPIC TAGS: least square method, trigonometry, measurement, approximation

ABSTRACT: Usually trigonometric networks are equalized by means of group equalization based on indirect measurements. The procedure is rigorous throughout the equalization process but it requires a substantial amount of time and effort. In practice, one does not need always a maximum degree of accuracy, and the author presents here a simpler method representing a combination of relative and indirect measurements. Although based on the least square method, it represents a satisfactory approximation to the group equalization method. The present article outlines the procedures and gives the theoretical justification. Examples will be published in later issues of the journal. Orig. art. has: 4 figures and 16 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: none

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

VOJCIC, Radovan, inz., puk. (Beograd)

Determining the Laplace points. (Conclusion) Geod list 16 no.4/6:167-174 Ap-Je '62.

1. Geografski institut Jugoslovenske narodne armije.

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Determination of the Laplace points. (To be contd.) Geod list 16 1/3:38-49 '62.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

DC

b-II-6

COMMON ELEMENTS

COMMON VARIABLES INDEX

MATERIALS INDEX

Application of a photo-element to the determination of the degree of bleaching of fabrics. G. E. Mucchin, Voychichowski, and L. J. Kurtz (Ukrain. Chem. J., 1951, 6, [Tech.], 17—21).—A photo-element which is more convenient and gives more exact results than the step-photometer is described.

R. Trusikowski.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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GOMORI, Pal; NAGY, Zoltan; JAKOB, Imre; VOJDA, Vera

On some problems related to the investigation of renal circulation.
Biol orv kozl MTA 11 no.4:383-396 '60. (EEAI 10:5)

1. Budapesti Orvostudomanyi Egyetem II. sz. Belklinikaja.
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VOJE, Andrej, Inz.

Defects in steel casts. Livar vest 11 no.4/5:114-121 '64.

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CZECHOSLOVAKIA

VOJENCIAK, J., MVDr; KEVEK, M, MVDr

Kosice (for both)

Brno, Veterinarstvi, No 11, November 1966, pp 524-525

"Collection of blood from rabbits."

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

A-1

RC

Concentration of hydrogen atoms in a low-pressure hydrogen flame. V. V. Voievodski (*Compt. rend. Acad. Sci. U.R.S.S.*, 1944, 44, 280—284).—All available experimental data for the inflammation limits of H_2-O_2 mixtures at low pressures agree with the deduction (from Lewis and Elbe's mechanism) that the min. temp. of a low-pressure flame uniquely determines the corresponding pressure for a given mixture composition. The "activation energy" of k_1, k_2, the rate consts. for $OH + H_2 = H_2O + H$ and $H + O_2 + M = HO_2 + M$, respectively, which determines the variation of the lower limit with temp., is 21,000 g.-cal. If vibrational degrees of freedom are taken into account in the temp.-dependence of the life of HO_2, and the effect of chain rupture at the wall is considered, the ratio [H]/[OH] = 8 is obtained for a $2H_2 + O_2$ mixture at 1000° K. Kondratsev's val. for $k_1 = 7 \times 10^{-13}\sqrt{T} \times e^{-10,000/RT}$ is used. If the above factors are not taken into account the ratio [H]/[OH] = 150 is obtained.

L. J. J.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410016-4

Concentration of hydrogen atoms in a low-pressure hydrogen flame. V. V. Voievodski (*Compt. rend. Acad. Sci. U.R.S.S.*, 1944, 44, 280—284).—All available experimental data for the inflammation limits of H_2-O_2 mixtures at low pressures agree with the deduction (from Lewis and Elbe's mechanism) that the min. temp. of a low-pressure flame uniquely determines the corresponding pressure for a given mixture composition. The "activation energy" of k_1/k_2, the rate consts. for $OH + H_2 = H_2O + H$ and $H + O_2 + M = HO_2 + M$, respectively, which determines the variation of the lower limit with temp., is 21,000 g.-cal. If vibrational degrees of freedom are taken into account in the temp.-dependence of the life of HO_2, and the effect of chain rupture at the wall is considered, the ratio $[H]/[OH] = 8$ is obtained for a $2H_2 + O_2$ mixture at 1000° K. Kondrateev's val. for $k_2 = 7 \times 10^{-11}\sqrt{T} \times e^{-10,000/RT}$ is used. If the above factors are not taken into account the ratio $[H]/[OH] \approx 150$ is obtained.

L. J. J.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CS

2

ELECTRIC KRYPTOL MUFFLE FURNACE WITHOUT TRANSFORMERS FOR THE DETERMINATION OF AFTER-CONTRACTION.—B. N. Vojewodin, M. N. Bluvstein, and N. K. Sazonova (*Ogneupory*, 6, 1,336, 1938). Kryptol furnaces are usually regulated by means either of resistances or transformers; the first consume much current, while the second are expensive. A kryptol furnace has been developed in which the packing height of the kryptol can be varied by means of several pairs of electrodes fitted at different points, to which the main current can be connected. It is a muffle type of furnace, the muffle measuring 205 mm. long, 110 mm. wide, and 110 mm. high. The furnace consumes up to 80 amps. at 110-120 volts, and can be raised to 1,400°–1,500° in 1½ to 2 hours. After-contraction was measured in this furnace on specimens measuring 30 mm. × 30 mm. × 100 mm., three being tested at a time. They were heated to 350° in 4 hours 50 minutes and then held at 1,400° for 5 hours. (*Ref. Kast. Sil. Lit. No.* 6,318, 1939.)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Vojik, J.

SALEK, J.; VOJIK, J.

Cecal actinomycosis; further investigations on intestinal actinomycosis. Gastroenterologia bohema 4 no.5-6:325-330 Dec 50. (CLML 20:6)

1. Of the Second Surgical Clinic of Charles University in Prague (Head--Prof.Jiri Divis,M.D.) and of the Second Pathologico-Anatomical Institute of Charles University in Prague (Head--Prof.Vaclav Jedlicka,M.D.).

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VOJINOVIC, J.

New revised Institute Cargo Clauses. Medun transp 9 no.12:
831-832 D '63

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JEREMIC, M.; VOJINOVIC, Lj.; SPASOJEVIC, M.

Hydrophysical properties and their relation in the profile of smonitza and parapodzols of Serbia. Zemljiste biljka 12 no.1/3: 157-166 Ja-D '63.

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VOJNOVIC, Mihailo, dr inž.

Prof. Geza Bata; obituary. Gradevinar 16 no.7:259 Je '64

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VOJIR, R.; KUNCOVA, S.

Unusual mental disorders in inflammatory brain diseases. Cesk. psychiat. 60 no.4:246-249 Ag '64.

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VOJNOVIC, Jovan, inz.

A survey of the results of temeprature measurements in deep wells, and the temperature relations in the territories of Banat and Backa. Nafta Jug 15 no.6:167-170 Je '64.

1. Naftagas Enterprise, Novi Sad.

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Y/0001/64/000/003/0507/0512

ACCESSION NR: AP4017961

AUTHOR: Vojinovic, Mirko (Engineer); Carapic, Miodrag (Engineer)

TITLE: Safety systems for gas-cooled graphite-moderated reactors

SOURCE: Tehnika, no. 3, 1964, 507-512

TOPIC TAGS: safety amplifier channel, low-level flux, high-level flux, pressure variation, power plant safety system, log channel, counter channel, safety circuit, graphite-moderated reactor, gas-cooled reactor, reactor safety system

ABSTRACT: The article is a review of safety systems for gas-cooled graphite-moderated reactors. It describes the basic requirements for safety circuits and systems, the parameters and channels usually used in systems for gas-cooled graphite-moderated reactors, and the circuits of power plant safety systems. Reasons are given for adopting 2 out of 3 majority logic as the basis for safety systems. A section on parameters treats devices for measuring high- and low-level flux, temperature, velocity of pressure variation, and gas flow. Counter channels, low-level and high-level channels, and safety amplifier channels are reviewed. The final section describes circuits and gives block diagrams for all of these systems. Orig. art. has: 6 figures.

Card 1/2

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ACCESSION NR: AP4017961

ASSOCIATION: Institut za nuklearne nauke "Boris Kidric", Belgrade-Vinca (Institute for Nuclear Sciences)

SUBMITTED: 16Nov63 DATE ACQ: 12Mar 64 ENCL: 00

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YUGOSLAVIA/Soil Science - Biology of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100045

Author : Vojinovic Z.
Inst : -
Title : The Presence of Azptobacter in the Soils of Serbia

Orig Pub : Arhiv pejopr, nauke, 1956, 9, No 26, 97-112

Abstract : Specimens of various soils of Serbia were taken from the arable horizon (0-20 cm) and were analyzed immediately for the presence of azotobacter (A), according to Vinograd's method with a percentage determination of the germinating nodules on silica gel. Neutral soils or soils with an alkaline reaction are the richest in A. In soils, having a pH of less than 6.5, the quantity of azotobacter decreased sharply. Correlation between the soil-content of humus and available phosphoric acid and the A numbers was not found. The rhizosphere of various agricultural products manifested a different

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USSR/Soil Science - Biology of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100045

effect in the development, depending on the type of soil in which the plants grew. The application of manure or lime mixed with organic fertilizers favorably affected the A development in podzol soils. Liming achieved no positive results.
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